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see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing	
(day/month/year)	see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference see form PCT/ISA/220

FOR FURTHER ACTION See paragraph 2 below

International application No. PCT/IB2004/050563

International filing date (day/month/year) 03.05.2004

Priority date (day/month/year)

06.05.2003

International Patent Classification (IPC) or both national classification and IPC G02B3/14, G02B26/02

Applicant

KONINKLIJKE PHILIPS ELECTRONICS N.V.

1.	This opinion	contains	indications	relating to	the	following	items:
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Box No. I Basis of the opinion

Box No. II

Priority

☐ Box No. III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV

Lack of unity of invention

☑ Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Box No. VI

Certain documents cited

☐ Box No. VII

Certain defects in the international application

□ Box No. VIII Certain observations on the international application

FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220. 3.

Name and mailing address of the ISA:

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Authorized Officer

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/050563

	Box	(No). I	Basis of the opinion
1.	Witl the	h reg lang	gard guag	to the language , this opinion has been established on the basis of the international application in le in which it was field, unless otherwise indicated under this item.
		lan	gua	vinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).
2.	With nec	h reg	gard ary t	to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. ty	уре	of m	naterial:
	[a se	equence listing
	[tabl	e(s) related to the sequence listing
	b. fo	orma	at of	material:
	[in w	rritten format
	į		in c	omputer readable form
	c. ti	ime	of fil	ing/furnishing:
	1		con	tained in the international application as filed.
	١		filed	together with the international application in computer readable form.
	1		furr	ished subsequently to this Authority for the purposes of search.
3.		ha:	s be pies	tion, in the case that more than one version or copy of a sequence listing and/or table relating there en filed or furnished, the required statements that the information in the subsequent or additional is identical to that in the application as filed or does not go beyond the application as filed, as triate, were furnished.
4	Add	ditio	nal r	comments:

	Вох	No. II	Priority			
1. The following document has not been furnished:						
		⊠	copy of the earlier	application	whose pri	ority has been claimed (Rule 43 <i>bis</i> .1 and 66.7(a)).
			translation of the ea	arlier appli	cation who	se priority has been claimed (Rule 43bis.1 and 66.7(b)).
		Conse	auantly it has not be	an naccihi	e to consid	der the validity of the priority claim. This opinion has on that the relevant date is the claimed priority date.
2.		has he	oinion has been esta en found invalid (Ru ate indicated above	iles 43 <i>bis</i> .	1 and 64.1	ity had been claimed due to the fact that the priority claim). Thus for the purposes of this opinion, the international he relevant date.
3.	Add	litional	observations, if nece	ssary:		
	Box	x No. V	Reasoned state	ment und	er Rule 43 explanatio	bis.1(a)(i) with regard to novelty, inventive step or ns supporting such statement
		tement	approasinty; on a		· · · · · · · · · · · · · · · · · · ·	
١.	Ola	tement				
	Nov	velty (N)		Claims Claims	6-10 1-5,11-15
				No:	Ciairis	1-0,11-10
	Inv	entive s	tep (IS)	Yes:		
			•	No:	Claims	1-15
	Ind	ustrial a	applicability (IA)	Yes: No:	Claims Claims	1-15
2.	Cita	ations a	nd explanations			
	see	e separ	ate sheet			
		•	•			
_		y No. V	Certain docume			

1. Certain published documents (Rules 43bis.1 and 70.10)

and / or

2. Non-written disclosures (Rules 43bis.1 and 70.9)

see form 210

Re Item V.

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

- 1 The following documents are referred to in this communication:
 - D1: US-B-6 369 9541 (BERGE BRUNO ET AL) 9 April 2002 (2002-04-09)
 - D2: WO 02/099527 A (PRINS MENNO W J ; CORNELISSEN HUGO J (NL); KONINKL PHILIPS ELECTRONICS) 12 December 2002 (2002-12-12)
 - D3: EP-A-1 069 450 (CANON KK) 17 January 2001 (2001-01-17)
 - D4: BERGE B ET AL: "Variable focal lens controlled by an external voltage: an application of electrowetting" EUROPEAN PHYSICAL JOURNAL E. SOFT MATTER, EDP SCIENCES, IT, vol. 3, no. 2, October 2000 (2000-10), pages 159-163, XP002285977 ISSN: 1292-8941
 - D5: WO 03/069380 A (SNOEREN RUDOLPH M ; KUIPER STEIN (NL); FEENSTRA BOKKE J (NL); HENDRIKS) 21 August 2003 (2003-08-21)

2 ARTICLE 6 PCT

The application does not meet the requirements of Article 6 PCT for the following reasons:

The expression "...at least one of the fluids comprises a compound having a zero dipole moment in the gaseous phase" renders claim 1 unclear. It remains vague and unclear what the phase of the respective compound is in the electrowetting module and what compounds reference is made of.

In claim 11 it is unclear what is meant with the expression "...refractive index difference increasing effect".

3 INDEPENDENT CLAIM 1

3.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

Document D1 discloses (the references in parenthesis applying to this document):

An electrowetting module comprising a cavity (cf. Fig. 1, 6) containing at least a first body of a first fluid (13) and a second body of a second fluid (11), the two bodies being separated by an interface, and means (16, 75, 76, 77, 78, 79) for exerting a force on at least one of the bodies to change the position and/or shape of the interface, characterised in that at least one of the fluids comprises a compound having a zero dipole moment (cf. col. 6, ln. 49-55 and the description of the originally filed application pg. 4, ln. 30-34).

- 3.2 For reasons of completeness it is noted that documents D2, D3 and D4 disclose similar compositions (cf. related passages from International Search Report).
- 4 DEPENDENT CLAIMS 2-15
 - Dependent claims 2-15 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT). Claims 2-5, 11-15 are anticipated by the fluids of D1 or D2 or D3 or D4. D2 (cf. pg. 2, ln. 34) discloses that one of the fluids is non-polar making it obvious for the skilled person to choose alternatives as mentioned in claims 6-10.
- Industrial applicability is given in the field of electrowetting modules (Article 33(4) PCT).

Re Item VI Certain documents cited

Certain published documents

Application No Patent No	Publication date	Filing date	Priority date (valid claim)	
	(day/month/year)	(day/month/year)	(day/month/year)	
WO03/069380	21.08.2003	24.01.2003	14.02.2002	